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# Michael Faraday IET International Summit-2015 (MFIIS 2015)

## An IET International Conference

*Focused Area*

*Power-Control-Automation*



on September 12 - 13, 2015

Organized by:

**IET** The Institution of  
Engineering and Technology

**The Institution of Engineering and Technology  
Kolkata Local Network**

**Supported  
by**

**IET Control & Automation (UK)  
IET Power Electronics, Machines and Drives (UK)**

**Technical Sponsor: Dept. of Applied Physics,  
University of Calcutta  
Conference Web Link: <http://ietkolkata.org/conference/>**

## Aim

The philosophy of engineering and technology has undergone a tremendous change during the last few decades. During this period newer ideas have been prescribed, phenomenal changes have taken place in different directions in R&D activities. The industry also has warmly welcomed such innovations. Added to it, the engineers and their associates now are in the face of a tough challenge in view of the global recession in economics and employment opportunity. In view of this, it becomes all the more imperative to arrange such international conference, where students, researchers and engineering professionals from all hues-industries, academia and research organizations shall get together, express their innovation through their research works so that improvement of self skill is evolved.

## The IET

The Institution of Engineering and Technology is one of the world's leading professional societies for the engineering and technology community. The IET has more than 150,000 members in 127 countries and offices in Europe, North America and Asia-Pacific. The IET provides a global knowledge network to facilitate the exchange of ideas and promote the positive role of science, engineering and technology in the world. The Kolkata Network is located in the City of Joy, the vibrant metropolis of India. It is the only city in India which had nurtured five Nobel laureates. Being the oldest in India, the Network is proud of its history. Its origin dates back to 1944 when good number of British Engineers had taken initiative to form the then Calcutta Centre of The Institution of Electrical Engineers.

## Call for Paper

**The conference will focus on:**

### Power-Control-Automation

With this objective, contributions are invited in the following areas but not limited to:

#### Track 1: Control Systems

- Control oriented system modeling, identification, and simulation
- Advanced control system design: nonlinear control, robust control, adaptive control, self-tuning control, iterative learning control, optimal control, hybrid control, fault-tolerant control, intelligent control
- Decentralized and cooperative control
- Applications of advanced control techniques in real-time and embedded platforms
- Process control

#### Track 2: Drives & Automation

- AC & DC drives
- Linear machines
- Actuators
- PLC
- Power transformers
- Railway traction machines and drives
- Variable speed drives
- Machines and drives for electrically powered vehicles
- Industrial and non-industrial applications and processes

#### Track 3: Power System

- Design of transmission and distribution plants
- Operation and control of power generation

- Power Quality Issues about Harmonics, Transients, Sag & Swell, Notch, Interruption, Noise, Unbalance, etc
- Power system management and planning
- Power system operation and control
- Power system measurement and correction
- Computer applications and computational intelligence in power
- Flexible AC Transmission Systems

#### Track 4: Instrumentation & Measurements

- Intelligent control and instrumentation
- MEMS and nano-sensors
- Remote sensing & Environment sensors
- Distributed control, automation and safety systems
- Wireless Sensor Networks
- Instrumentation for condition monitoring
- Biomedical sensors, signal analysis and health monitoring applications
- Biologically Inspired Vision Sensors for Machine Vision Applications
- Compressive Sensing & Applications

#### Track 5: Power Electronics

- Converters
- Active filters
- Switched mode power
- Uninterruptible power supplies
- Applications of power semiconductor devices
- Photovoltaic devices
- Passive components
- Batteries and fuses
- Controlling, analysis, modeling and/or simulation of power electronics circuits

#### Track 6: Energy

- Energy technology
- Power generation and systems integration
- Wind power technology
- Photovoltaics
- Solar thermal power generation
- Geothermal energy
- Fuel cells
- Wave power
- Marine current energy
- Biomass conversion
- Energy saving

#### Track 7: Robotics

- Mechatronic design and development of advanced robotic systems
- Modeling and control of wheeled mobile robots, serial and parallel robot manipulators, walking robots, flying robots, under-water robots
- Application of artificial intelligence in autonomous robotic systems
- Human-Robot interaction
- Social, Edutainment, and Companion robotics
- Swarm Robotics: Formation and Coverage control
- Surgical robotics
- Micro and Nano robotics

#### Track 8: Computation, Modeling & Simulation

- Computation technique & application
- Modeling
- Simulation

## Guidelines for Authors

Authors are invited to submit unpublished original papers in \*.pdf file written in English (Style: Title-authors name-affiliation of authors – abstract – keywords – main text body – acknowledgement – reference; max. page length: 5). The paper should explain clearly the purpose and outcome of research obeying the IET over length policy given in the following link

[http://digital-library.theiet.org/files/research\\_journals\\_length\\_policy.pdf](http://digital-library.theiet.org/files/research_journals_length_policy.pdf)

Guidelines for Authors is available at

<http://ietkolkata.org/conference/>

## Plagiarism Check

All submission will go through plagiarism check process.

## Submission Link

<https://easychair.org/conferences/?conf=mfis2015>

**Registered papers will be published in conference proceedings having ISBN and Presented Papers will be considered for being uploaded in IET Digital Library after post conference review.**

## Important Dates

Submission of manuscripts:	March 31, 2015 (extended)
Intimation of acceptance:	April 20, 2015
Camera ready submission:	May 15, 2015
Early Bird Registration:	June 30, 2015
Last Date for Registration:	July 30, 2015
Conference Date:	September 12-13, 2015

## Registration

Category	Early bird		After June 30, 2015	
	(For Indians)	(for others)	(For Indians)	(for others)
Author	INR 4500	\$ 200	INR 5000	\$ 225
Author (IET Member)	INR 3000	\$ 125	INR 3500	\$ 150
Author (Member of other professional bodies)	INR 4000	\$ 175	INR 4500	\$ 200
Student author	INR 2500	\$ 120	INR 3000	\$ 130
Student author (IET Member)	INR 2000	\$ 100	INR 2500	\$ 110
Non-author participant	INR 2500	\$ 120	INR 3000	\$ 130
Non-author participant (IET Member)	INR 2000	\$ 100	INR 2500	\$ 110

## Sponsor

Type	Amount	Facilities
Platinum sponsor	INR 50,000	One table space and 4 delegates free
Gold sponsor	INR 25,000	One table space and 2 delegates free
Silver sponsor	INR 10,000	One table space and 1 delegate free

## Venue

Kolkata, India

## Address for communication

Email: [mail2mfis@gmail.com](mailto:mail2mfis@gmail.com)

Web: <http://ietkolkata.org/conference/>